

US005196838A

United States Patent [19]

Meier et al.

[11] Patent Number:

5,196,838

[45] Date of Patent:

Mar. 23, 1993

[54]	INTELLIGENT SCROLLING						
[75]	Inventors: John R. Meier; John W. Sullivan, both of Cupertino; Paul Mercer, Palo Alto, all of Calif.						
[73]	Assignee:	Apple Computer, Inc., Cupertino, Calif.					
[21]	Appl. No.:	635,228					
[22]	Filed:	Dec. 28, 1990					
[51]	Int. Cl.5	G09G 3/02					
		340/726					
[58]	Field of Search 340/721, 723, 724, 726,						
		340/731, 709, 706, 710					
[56]	References Cited						
U.S. PATENT DOCUMENTS							
	4,313,113 1/	1982 Thornburg 340/709					

-,,	-,	 	
		 -	A1 1

4,831,556 5/1989 Oono 340/731

Primary Examiner—Alvin E. Oberley Assistant Examiner—Chanh Nguyen

Attorney, Agent, or Firm—Blakely, Sokoloff, Taylor & Zafman

[57]

ABSTRACT

A method and apparatus for intelligent scrolling. In a computer system that has a user interface which allows for the movement of items from a first open window to a second open window or to a second region, such as a desktop, the present invention allows a user to select one or more items in the first window, move the selected item(s) to within a predetermined distance from an edge of the first window for a predetermined period of time and cause the viewable portion of the data and/or document within the first window to scroll in a corresponding direction.

19 Claims, 13 Drawing Sheets



